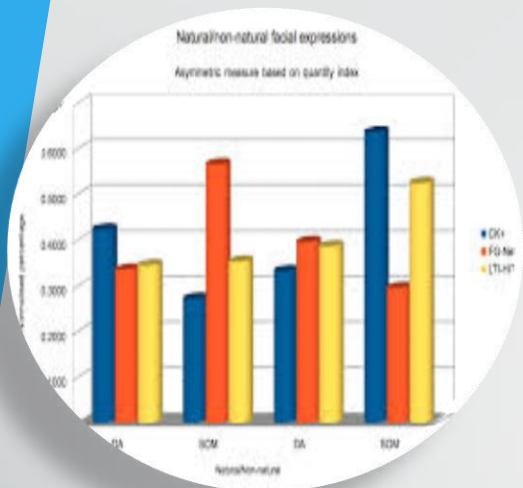




Ebook Usage Patterns

Dudee Chiang, Jet Propulsion Laboratory Library
California Institute of Technology
SCELC Colloquium, March 8, 2017

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U. S. Government sponsorship acknowledged.



What can Counter Boor Report 2 (BR2) tell me about usage?



What other information can I get from these reports?

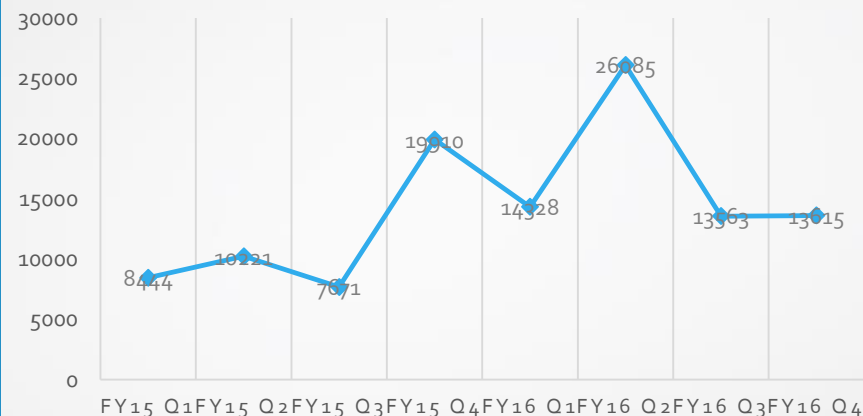
What can Counter Book Report (BR2) tell the library about uses?

Book Report 2 (R4)	Number of Successful Section Requests by Month and Title					
NASA Jet Propulsion Laboratory	Section Type:					
8200834721	Chapter					
Period covered by Report:						
2016-01-01 to 2016-12-31						
Date run:						
2017-02-08						
	Publisher	Book DOI	ISBN	Reporting	Jan-2016	Feb-2016
Total for all titles				54340	8370	9766
1,001 Celestial Wonders to See	Springer	10.1007/978-1-	978-1-4419-1777-5	14	0	0
104 Number Theory Problems	Springer	10.1007/978-0-	978-0-8176-4561-8	1	0	0
25 Years of Model Checking	Springer	10.1007/978-3-	978-3-540-69850-0	1	0	0
3D Computer Vision	Springer	10.1007/978-1-	978-1-4471-4150-1	28	0	0
50 Years of Artificial Intelligence	Springer	10.1007/978-3-	978-3-540-77296-5	35	34	0
50 Years of Integer Programming	Springer	10.1007/978-3-	978-3-540-68279-0	38	19	0
A Basic Course in Probability Theory	Springer	10.1007/978-0-	978-0-387-71939-9	13	13	0
A Basis Theory Primer	Springer	10.1007/978-0-	978-0-8176-4687-5	16	16	0
A Beginner's Guide to Discrete	Springer	10.1007/978-0-	978-0-8176-8286-6	30	10	20
A Beginner's Guide to Finite Mathematics	Springer	10.1007/978-0-	978-0-8176-8319-1	16	0	16
A Beginner's Guide to R	Springer	10.1007/978-0-	978-0-387-93837-0	9	0	9
A Beginner's Guide to Graph Theory	Springer	10.1007/978-0-	978-0-8176-4580-9	45	15	15
A Brief History of Cryptology and	Springer	10.1007/978-3-	978-3-319-01628-3	9	9	0
A Brief History of Radio Astronomy	Springer	10.1007/978-94	978-94-007-2834-9	13	0	0

Periodic Totals and List

	Reporting
Total for all titles	54340
Lasers, Clocks and Drag-Free Control	459
Protection of Materials and Structures From the !	393
Computer Vision – ACCV 2007	356
Medical Image Computing and Computer-Assiste	332
Atmospheric Physics	309
Springer Handbook of Robotics	265
Theory of Gravitational Interactions	254
Newton's Gravity	250
Intelligent Robotics and Applications	222
Grappling with Gravity	208
Progress in Pattern Recognition, Image Analysis :	203
The Labyrinth of Star Formation	196
Quasi-Optical Control of Intense Microwave Tran	190
High Energy Density Laboratory Astrophysics	189
Springer Handbook of Atomic, Molecular, and Op	184
Cellular Automata	180
Handbook of Financial Time Series	176
The Science of Solar System Ices	175
Saturn from Cassini-Huygens	167
Observing Photons in Space	164
Planetary Atmospheric Electricity	161

QUARTERLY BOOK CHAPTER DOWNLOAD



Quarterly Ebook Usage and Turn-aways





What other information can I get from these reports?

Stacking Multiple Years Together

Book Report 2 (R4)	Number of Successful Section Requests by Month and Title				
NASA Jet Propulsion Laboratory	Section Type:				
8200834721	Chapter				
Period covered by Report:					
2016-01-01 to 2016-12-31					
Date run:					
2017-02-08					

	Publisher	Book DOI	ISBN	Reporting Jan-2016	Feb-2016	
Total for all titles				54340	8370	9766
1,001 Celestial Wonders to See Before You Die	Springer	10.1007/978-1-4419-1777-5	978-1-4419-1777-5	14	0	0
104 Number Theory Problems	Springer	10.1007/978-0-8176-4561-8	978-0-8176-4561-8	1	0	0
25 Years of Model Checking	Springer	10.1007/978-3-540-69850-0	978-3-540-69850-0	1	0	0

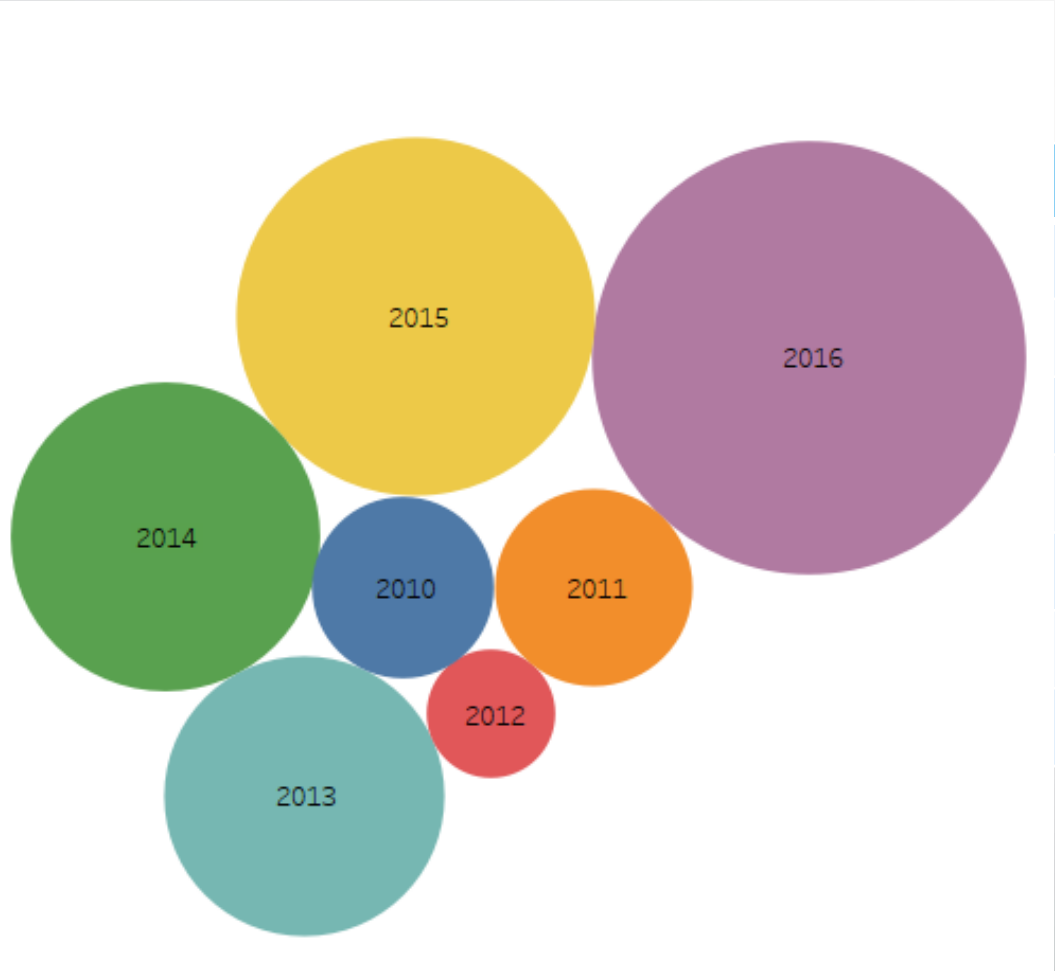
3D Computer Vi	Book Report 2 (R4)	Number of Successful Section Requests by Month and Title				
50 Years of Artif	NASA Jet Propulsion Laboratory - US	Section Type:				
50 Years of Inte	8200834721	Chapter				
A Basic Course i	Period covered by Report:					
A Basis Theory P	2015-01-01 to 2015-12-31					
A Beginner's Gu	Date run:					
A Beginner's Gu	2016-04-26					
A Beginner's Gu		Publisher	Book DOI	ISBN	Reporting Jan-2015	Feb-2015
A Beginner's Gu	Total for all titles				37143	2714
A Brief History o	1,001 Celestial Wonders to See Before You	Springer	10.1007/9	978-1-4419-1777-5	309	12
A Brief History o	104 Number Theory Problems	Springer	10.1007/9	978-0-8176-4561-8	11	0
	18 Unconventional Essays on the Nature of	Springer	10.1007/0	978-0-387-29831-3	18	0
	3D Computer Vision	Springer	10.1007/9	978-1-4471-4150-5	9	0
	A Basic Course in Probability Theory	Springer	10.1007/9	978-0-387-71939-5	52	0
	A Beginner's Guide to R	Springer	10.1007/9	978-0-387-93837-0	113	59
	A Beginner's Guide to Scala, Object Orienta	Springer	10.1007/9	978-3-319-06776-6	129	0
	A Brief on Tensor Analysis	Springer	10.1007/9	978-1-4684-0141-7	4	0

A Comparison of	Book Report 2 (R4)	Number of Successful Section Requests by Month and Title					
A Complex Anal	NASA Jet Propulsion Laboratory - US	Section Type:					
A Computational	8200834721	Chapter					
A Concise Course	Period covered by Report:						
A Concise and Pr	2014-01-01 to 2014-12-31						
A Course in Calc	Date run:						
	2015-04-27						
		Publisher	Book DOI	ISBN	Reporting Jan-2014	Feb-2014	
	Total for all titles				27622	2001	578
	1,001 Celestial Wonders to See Before You Die	Springer	10.1007/9	978-1-4419-1777-5	38	2	12
	1000 Solved Problems in Classical Physics	Springer	10.1007/9	978-3-642-11943-9	15	0	0
	103 Trigonometry Problems	Springer	10.1007/b	978-0-8176-4432-1	5	0	0
	18 Unconventional Essays on the Nature of Mathematics	Springer	10.1007/0	978-0-387-29831-3	777	0	0
	3D Computer Vision	Springer	10.1007/9	978-3-642-01732-2	40	8	0
	40 Puzzles and Problems in Probability and Mathematical	Springer	10.1007/9	978-0-387-73512-2	171	3	0
	A Beginner's Guide to R	Springer	10.1007/9	978-0-387-93837-0	9	0	0
	A Benchmark Approach to Quantitative Finance	Springer	10.1007/9	978-3-540-47856-0	16	0	0
	A Brief History of Computing	Springer	10.1007/9	978-1-84800-084-1	7	0	0
	A Comparison of the Bayesian and Frequentist Approache	Springer	10.1007/9	978-1-4419-5941-6	12	0	0
	A Comparison of the Dynamical Evolution of Planetary Sy	Springer	10.1007/1	978-1-4020-4466-3	33	1	0
	A Concise Course on Stochastic Partial Differential Equati	Springer	10.1007/9	978-3-540-70781-3	8	0	0
	A Concise Introduction to Linear Algebra	Springer	10.1007/9	978-0-8176-8325-2	9	0	0
	A Concise and Practical Introduction to Programming Algc	Springer	10.1007/9	978-1-84882-339-6	11	0	0



	Year								
Book Title	2010	2011	2012	2013	2014	2015	2016	# of Years	7-Yr Down
The Mathematical Coloring Book					2158	49		2	2207
Handbook of Practical Astronomy	742	9	19	28	85	28	15	7	926
Handbook of Data Visualization		112		510	285			3	907
Python Scripting for Computational Science	42	121	13	167	195	199	111	7	848
Saturn from Cassini-Huygens	215	123	38	71	35	187	167	7	836
18 Unconventional Essays on the Nature of Mathematics	18				777	18		3	813
Cryocoolers 13	8	7	18	280	470	10	3	7	796
Cellular Automata	1	8				495	180	4	684
Titan from Cassini-Huygens	250	91	27	68	89	45	88	7	658
Lasers, Clocks and Drag-Free Control	8	7	2	2	83	84	459	7	645
A Primer on Scientific Programming with Python	56	52	12	63	154	217	72	7	626
Springer Handbook of Atomic, Molecular, and Optical Physics	98	95	20	112	7	106	184	7	622
Number Theory		16	13	16	501	61	8	6	615
The Sky at Night		2		215	43	349		4	609
MARS A Cosmic Stepping Stone	3	11		471		49	63	5	597
Landscapes of Mars	25	34	51	384	31	47	20	7	592
1,001 Celestial Wonders to See Before You Die	19	1	1	175	38	309	14	7	557
Protection of Materials and Structures From the Space Environment						113	393	2	506
The Elements of Statistical Learning	72	24	37	99	144	54	55	7	485
Intelligent Robotics and Applications	11	3	3	9	81	140	229	7	476
How to Photograph the Moon and Planets with Your Digital Camera				143	14	299	14	4	470
Atmospheric Physics						161	309	2	470

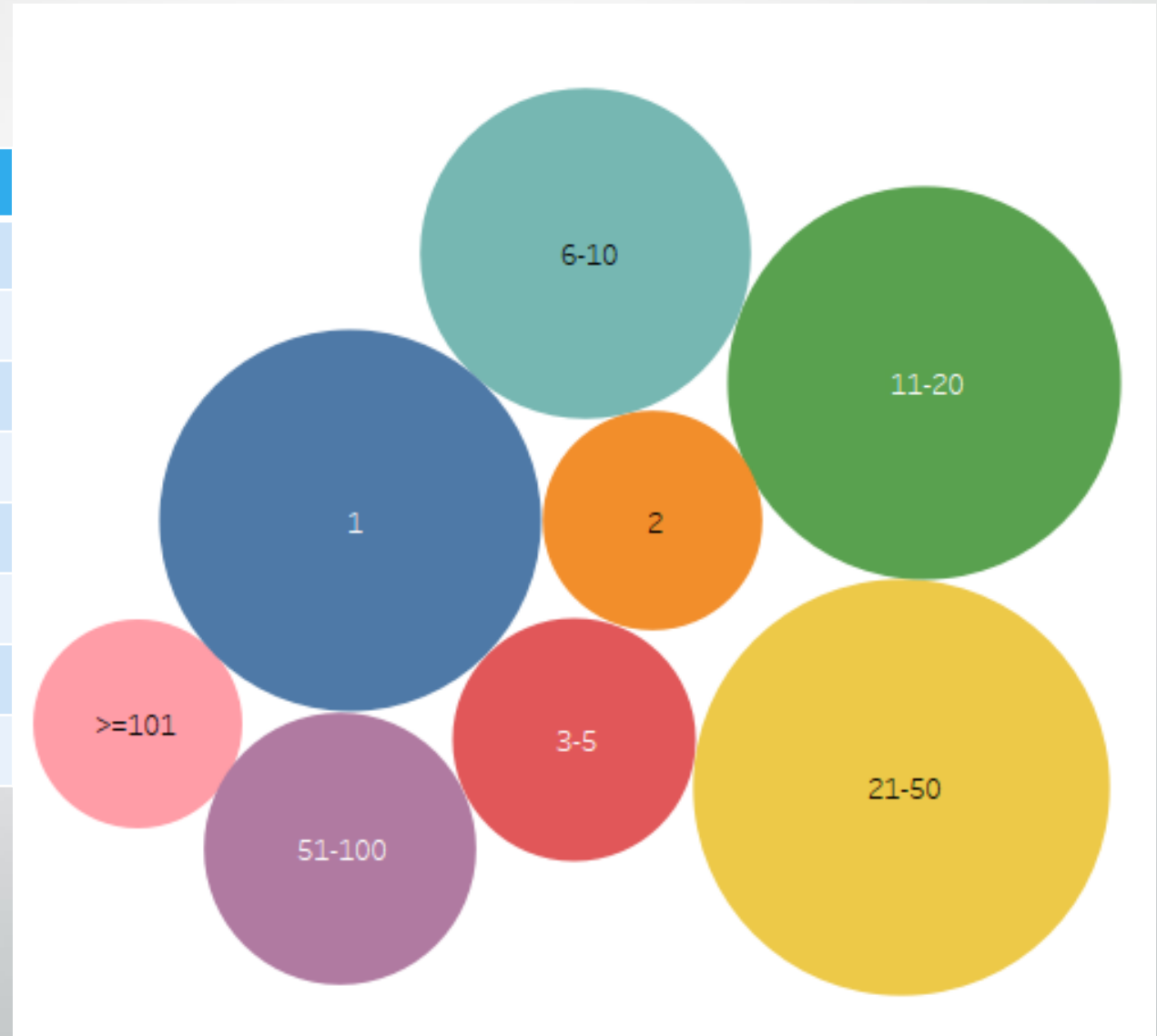
Number of Chapters and Books Downloaded By Calendar Year

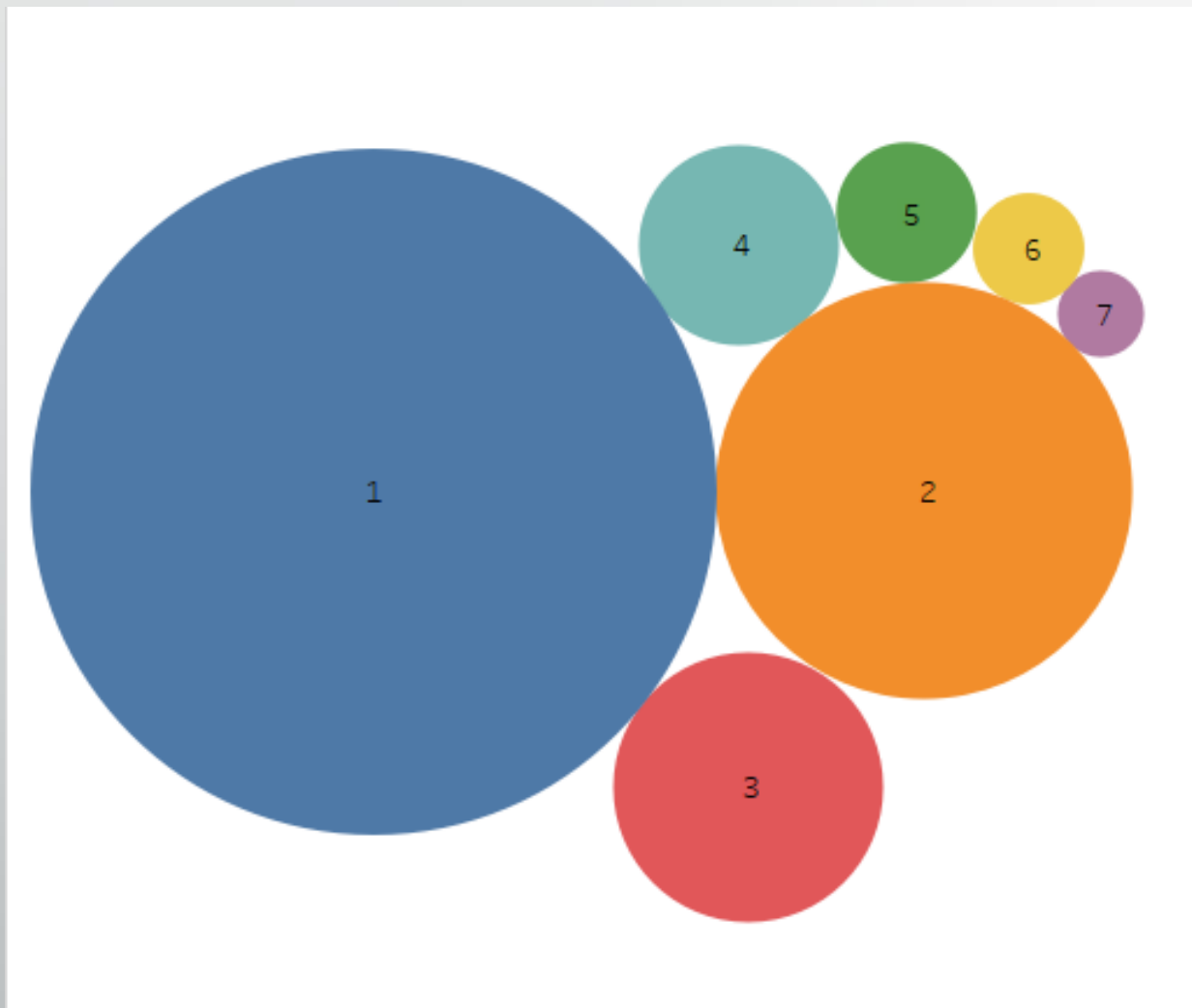


Year	# of Books	# of Chapters
2010	1,350	9,527
2011	1,341	11,259
2012	789	4,771
2013	1,294	22,686
2014	1,399	27,622
2015	1,964	37,143
2016	2,586	54,340

Number of Books for Each Chapter Group

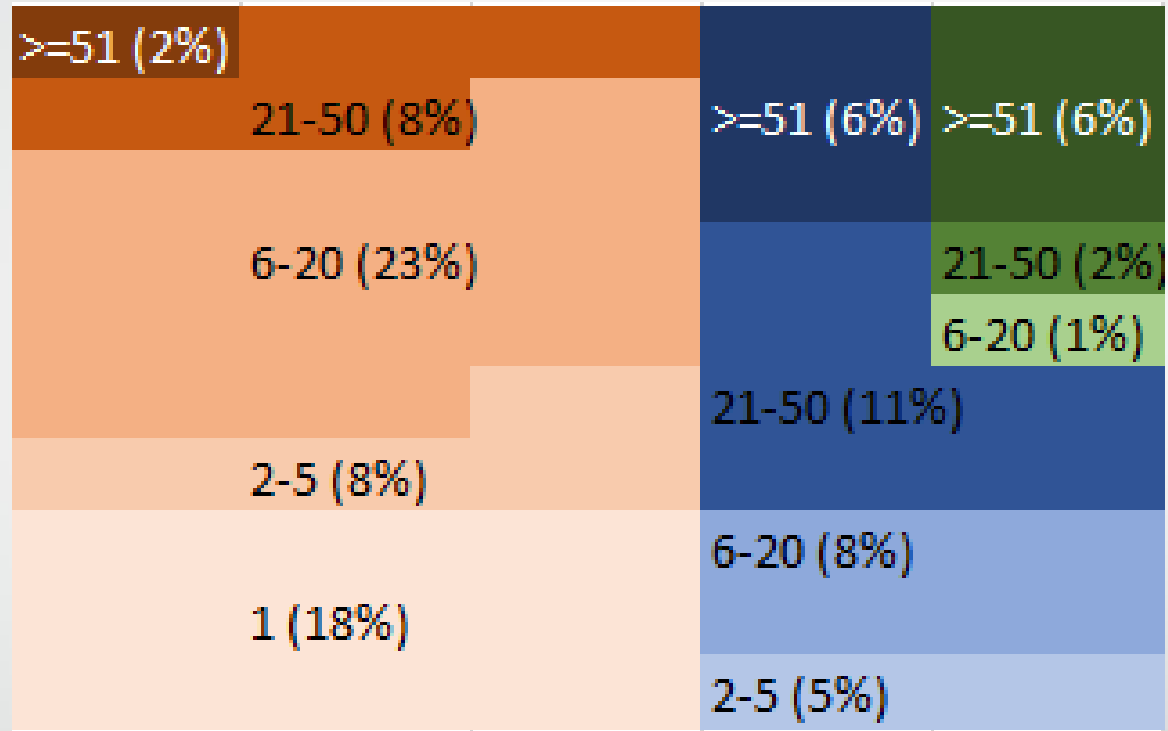
# of Chapters	# of Books
1	1,018
2	337
3-5	413
6-10	764
11-20	1,081
21-50	1,212
51-100	517
>=101	305





Frequency	# of Books
1	3,336
2	1,230
3	516
4	284
5	140
6	88
7	53

Usage vs Frequency by Percentage Map



Use/Freq.	1 yr	2-3 Yrs	4-7 Yrs
≥ 51	2.48%	5.67%	6.41%
21-50	7.76%	11.37%	2.34%
6-20	23.15%	8.45%	1.08%
2-5	7.67%	5.44%	0.18%
1	18.03%	0.00%	0.00%

Book Title	Year							# of Ye	7-Yr Downl
	2010	2011	2012	2013	2014	2015	2016		
The Mathematical Coloring Book					2158	49		2	2207
Handbook of Practical Astronomy	742	9	19	28	85	28	15	7	926
Handbook of Data Visualization		112		510	285			3	907
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Intelligent Robotics and Applications	11	3	3	9	81	140	229	7	476
How to Photograph the Moon and Planets with Your Digital Camera				143	14	299	14	4	470
Atmospheric Physics						161	309	2	470